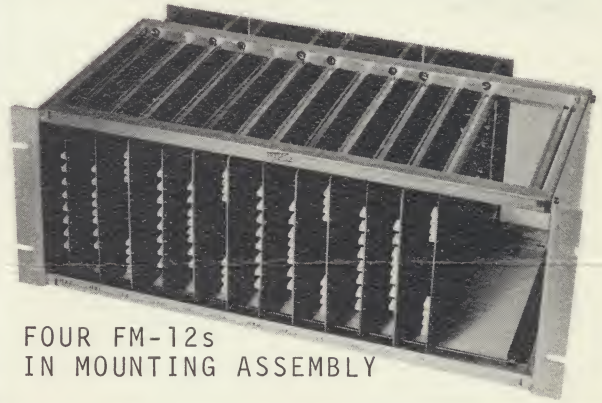


FM-12 DATA SET

*A fully compatible, reliable data set
available in a variety of configurations*



FM-12 MODULES



FOUR FM-12s
IN MOUNTING ASSEMBLY

DESCRIPTION: The Rixon FM-12 Data Set is a low speed modem for transmitting and receiving digital data over telephone circuits at speeds up to 1200 bits per second (150 characters per second). Built to comply with EIA RS-232 B interface standards, it is compatible with a wide variety of business machines and data processing equipment.

VARIABLE CONFIGURATION: To meet a wide range of applications, various configurations of the FM-12 are available. For OEM installations where the data set is to be built into terminal equipment, a plug-in module set which contains all circuitry is available. The FM-12 can also be packaged as a complete assembly, with or without a power supply, for mounting in a standard 19" rack. Also available is a unit for desk top use or shelf mounting. For synchronous operation, an optional clock is available.

USES TELEPHONE CIRCUITS: The FM-12 operates over Type 3003 (Type 4A) telephone circuits specified in FCC Tariff 260, "Private Line Services." Type 3003 circuits are voice telephone

channels which have been conditioned for data transmission.

AUTOMATIC OPERATION: When data is to be transmitted or received, the data set is activated automatically by a signal from the computer or business machine. There are no controls with the exception of an off-on switch included in some configurations.

EASY MAINTENANCE: Operational status can be quickly determined by using strategic test points on the front of each module that are keyed to operating and maintenance manual instructions. The oscilloscope patterns shown in the manual are also printed on a "service aid" template which is available as an option.

PROVEN DESIGN STANDARDS: The FM-12 is the newest of the Rixon Data Sets. The high standards of design perfection and operating reliability that have given the other sets a reputation for excellence have been employed in the design of the FM-12. Thousands of hours of trouble-free operation can be expected.

For application information and prices contact:

RIXON ELECTRONICS, INC.

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SPECIFICATIONS

Data Rate	Up to 1200 bits per second.
Modulation	Frequency Shift Keying. Asynchronous. Synchronous with optional clock.
Carrier Frequencies	Mark; 1200 Hz. Space; 2200 Hz.
Line Requirements	Type 3003 (4A) wireline circuit.
Operating Modes	Full duplex, half duplex* or simplex.
Interfaces	Data input, data output, request to send, clear to send, carrier detector, data set ready, transmit & receive clock when used.
	All interfaces conform to RS 232 B.
	Transmit Line Signal Levels/Impedance; 0 dbm or -8 dbm strap option, 600 ohm output.
	Receive Line Levels/Impedance; -35 dbm to +6 dbm, 600 ohm input.
	Compromise equalization for Type 3003 circuit. Removable on request.
Control Functions	Transmit: Clear to Send delay 8.5 ms ± .8 ms or 200 ms ± 20 ms.
	Receive: Carrier detector
Power Requirements	D.C. Power -20V @ 200 ma, +20V @ 250 ma.
Environmental Requirements	Ambient Temperature Range 0° to 50° C (32° to 122° F). Humidity 0-95%. Altitude up to 10,000 ft.
Mechanical Specifications	Module size 8½" x 5 7/8" x 1", three per data set.
	Rack mounting assembly 19" wide, 7½" high, 8" deep.

*The output impedance of the transmitter can be adjusted to bridge the receiver input. This allows half duplex operation over a two wire circuit without a mechanical change from transmit to receive.